ELSEVIER

Journal of Magnetism and Magnetic Materials 186 (1998) 403–405

Journal of magnetism and magnetic materials

Author index to volume 186

Aguilera-Granja, F., see Guirado-López, R. 214
André, G., see Tran, V.H. 81
Appleton, S.G., see Pullar, R.C. 313
Appleton, S.G., see Pullar, R.C. 326
Aragonéses, P., see Blanco, J.M. 135
Arcas, J., A. Hernando, J.M. García-Beneytez and M. Vázquez, Spatial fluctuations of magnetostriction in a nanostructured system 283
Argüelles, M.A., see Soldevilla, J.G. 49

Bacri, J.C., see Gazeau, F. 175
Barghout, K., see Hamdeh, H.H. 377
Beach, R.S., see O'Donovan, K.V. 161
Belanger, D.P., see Slanič, Z. 65
Berkov, D.V., Numerical calculation of the energy barrier distribution in disordered many-particle systems: the path integral method 199
Bhagwat, A., see Shinde, S.R. 342
Bhattacharya, A.K., see Pullar, R.C. 313
Bhattacharya, A.K., see Pullar, R.C. 326
Blanco, J.M., L. Domínguez, P. Aragonéses and J. González, Induced anisotropy and magnetostriction behaviour of an annealed Co–Fe (Co-rich) amorphous wire 135
Böhm, H., see Talik, E. 33
Brommer, P.E., see Thang, C.V. 386
Budzyński, M., see Jartych, E. 299
Buschow, K.H.J., see Schobinger-Papamantellos, P. 21

Chakraborty, S. and A.K. Majumdar, Electron transport studies in Ni-rich γ-NiFeCr alloys 357
Chaudhari, N.D., see Sankpal, A.M. 349
Chen, D.-F., see Lin, C. 129
Chen, Z., C. Ni and G.C. Hadjipanayis, Microstructure and magnetic properties of melt-spun $Sm_2Fe_{15-x}Co_xCr_2C_2$ ($x = 0$–4) nanocomposite magnets 41
Chizhik, A.B., see Gnatchenko, S.L. 139

Date, S.K., see Shinde, S.R. 342
Delaunay, L., see Payet, B. 168
Derzhko, O., O. Zaburannyi and J.W. Tucker, Initial static susceptibilities of nonuniform and random Ising chains 188
Desjonquères, M.C., see Guirado-López, R. 214
Domínguez, L., see Blanco, J.M. 135
Du, Y.W., see Tang, W. 115
Dubois, E., see Gazeau, F. 175

Ehrenberg, H., M. Wiesmann, H. Paulus and H. Weitzel, Magnetic phase diagrams of α-$NiMoO_4$ 74
Eremenko, V.V., see Gnatchenko, S.L. 139
Espeso, J.I., see Soldevilla, J.G. 49
Ezekwenna, P.C., see Long, G.J. 10

Fishman, R.S., see Galkin, V.Yu. L1
Flynn, C.P., see O'Donovan, K.V. 161
Franse, J.J.M., see Thang, C.V. 386
Freeman, A.J., see Kim, M. 277
Fronc, K., see Gnatchenko, S.L. 139
Frota-Pessôa, S., see Klautau, A.B. 223

Galkin, V.Yu., W.A. Ortiz and R.S. Fishman, Local Fe moment in commensurate and incommensurate spin-density wave Cr matrix L1
Gao, Y., J. Zhu, C. Yang and E. Park, Thermomagnetic behaviors of $Nd_2Fe_{14}B/Fe_3B$ based nanocomposite magnets 97
García-Beneytez, J.M., see Arcas, J. 283
Gazeau, F., J.C. Bacri, F. Gendron, R. Perzynski, Yu.L. Raikher, V.I. Stepanov and E. Dubois, Magnetic resonance of ferrite nanoparticles: evidence of surface effects 175
Gendron, F., see Gazeau, F. 175
Gibbons, M.R., Micromagnetic simulation using the dynamic alternating direction implicit method 389
Giorgadze, N. and R. Khomeriki, Nonresonant interaction of noncollinear weakly nonlinear modulated waves of magnetization 239
Gnatchenko, S.L., A.B. Chizhik, D.N. Merenkov, V.V. Eremenko, H. Szymczak, R. Szymczak, K. Fronc and R. Zuberek, Magnetic field-induced spin reorientation in gadolinium surface layer of Gd/Fe multilayers 139
González, J., see Blanco, J.M. 135
Gou, C., see Lin, C. 129
Granberg, P., P. Isberg, E.B. Svedberg, B. Hjörvarsson, P. Nordblad and R. Wäppling, Antiferromagnetic coupling and giant magnetoresistance in Fe/V(0 0 1) superlattices 154

0304-8853/98/$19.00 © 1998 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(98)00190-5

Grandjean, F., see Long, G.J. 10
Guirado-López, R., D. Spanjaard, M.C. Desjonquères and F. Aguilera-Granja, Electronic and geometrical effects on the magnetism of small Ru_N clusters 214

Hadjipanayis, G.C., see Chen, Z. 41
Hamdeh, H.H., K. Barghout, J.C. Ho, R.J. Willey and M.J. O'Shea, Mössbauer study of aerogel-synthesized Ge-Fe-oxide with T_N near 260 K 377
Hautot, D., see Long, G.J. 10
Heimann, J., see Talik, E. 33
Heimann, J., see Jendrzejewska, I. 381
Hernando, A., see Arcas, J. 283
Hiebl, K. and O. Sologub, Electrical resistivity and magnetic properties of the ternary compounds Ho_2TGe_2; T = Ru, Os 56
Hjörvarsson, B., see Granberg, P. 154
Ho, J.C., see Hamdeh, H.H. 377
Holden, T.M., see Lamarche, A.-M. 121
Hwang, D.G., C.M. Park and S.S. Lee, Exchange biasing in NiO spin valves 265

Isberg, P., see Granberg, P. 154

Jartych, E., J.K. Żurawicz, D. Oleszak, M. Pękała, J. Sarzyński and M. Budzyński, Magnetic properties and structure of nanocrystalline $Fe_{70}Al_{30}$ alloy prepared by mechanosynthesis 299
Javorský, P., H. Nakotte, R.A. Robinson and T.M. Kelley, Crystal field in ErNiAl studied by inelastic neutron scattering 373
Jendrzejewska, I., T. Mydlarz, I. Okońska-Kozłowska and J. Heimann, Magnetic properties of single crystals $Cu_xZn_yCr_zSe_4$ 381
Jin, Z.Q., see Tang, W. 115

Kakatkar, S.V., see Sankpal, A.M. 349
Kelley, T.M., see Javorský, P. 373
Khan, H.R., see Pohorilyi, A.N. 87
Khomeriki, R., see Giorgadze, N. 239
Kim, C.S., see Pohorilyi, A.N. 87
Kim, M., L. Zhong, X. Wang and A.J. Freeman, Orientational and thickness dependence of interfacial magnetocrystalline anisotropy in Co/Cu superlattices 277
Klautau, A.B., P.R. Peduto and S. Frota-Pessôa, Magnetism of Fe impurities and adatoms on Pd(0 0 1) surfaces 223
Kletowski, Z., High field magnetoresistance of some $REIn_3$ compounds, RE = La, Ce, Pr and Sm L7
Klik, I. and Y.D. Yao, Initial susceptibility of noninteracting particulate media 233
Kolekar, C.B., see Vasambekar, P.N. 333
Kravetz, A.F., see Pohorilyi, A.N. 87
Krey, U., see Paja, A. 104
Kusz, J., see Talik, E. 33

Lamarche, A.-M., J.C. Woolley, G. Lamarche, I.P. Swainson and T.M. Holden, Structure and magnetic properties of the ternary compound copper iron telluride 121
Lamarche, G., see Lamarche, A.-M. 121
Lee, S.S., see Hwang, D.G. 265
Lin, C., C.-X. Liu, Y.-X. Sun, Z.-X. Liu, D.-F. Chen, C. Gou, K. Sun and J.-L. Yang, Neutron diffraction study of Nd_5Fe_{17} 129
Liu, C.-X., see Lin, C. 129
Liu, Z.-X., see Lin, C. 129
Long, G.J., O.A. Pringle, P.C. Ezekwenna, S.R. Mishra, D. Hautot and F. Grandjean, A Mössbauer spectral study of the $Sm_2Fe_{17-x}Al_x$ solid solutions 10
Lyberatos, A., Monte Carlo simulation of the effects of the local variation of the coercivity in magneto-optic media 248

Majumdar, A.K., see Chakraborty, S. 357
Marest, G., see Shinde, S.R. 342
Mehta, G.K., see Shinde, S.R. 342
Merenkov, D.N., see Gnatchenko, S.L. 139
Mishra, S.R., see Long, G.J. 10
Moskvin, A.S. and A.S. Ovchinnikov, The singlet–triplet magnetism in the cuprates 288
Mydlarz, T., see Talik, E. 33
Mydlarz, T., see Jendrzejewska, I. 381

Nakotte, H., see Javorský, P. 373
Neumann, M., see Talik, E. 33
Ni, C., see Chen, Z. 41
Nordblad, P., see Granberg, P. 154
Noyel, G., see Payet, B. 168

O'Donovan, K.V., R.S. Beach, M.B. Salamon and C.P. Flynn, Orthorhombic distortions of Dy/Lu superlattices 161
O'Shea, M.J., see Hamdeh, H.H. 377
Ogale, S.B., see Shinde, S.R. 342
Okońska-Kozłowska, I., see Jendrzejewska, I. 381
Oleszak, D., see Jartych, E. 299
Ortiz, W.A., see Galkin, V.Yu. L1
Oszajec, M., see Paja, A. 104
Ovchinnikov, A.S., see Moskvin, A.S. 288

Paja, A., T. Stobiecki, M. Oszajec and U. Krey, The resistivity of amorphous $Fe_{1-x}Zr_x$ alloys in the ferromagnetic region 104
Park, C.M., see Hwang, D.G. 265
Park, E., see Gao, Y. 97
Patil, R.S., see Sankpal, A.M. 349
Patil, S.I., see Shinde, S.R. 342
Paulus, H., see Ehrenberg, H. 74
Payet, B., D. Vincent, L. Delaunay and G. Noyel, Influence of particle size distribution on the initial susceptibility of magnetic fluids in the Brown relaxation range 168
Peduto, P.R., see Klautau, A.B. 223
Pękała, M., see Jartych, E. 299
Perzynski, R., see Gazeau, F. 175
Pittini, R. and P. Wachter, Cerium compounds: The new generation magneto-optical Kerr rotators with unprecedented large figure of merit 306

Pohorilyi, A.N., A.F. Kravetz, E.V. Shipil, A.Ya. Vovk, C.S. Kim and H.R. Khan, Effect of annealing and chemical composition on the giant magnetoresistance of electron beam deposited $Co_xCu_{(100-x)}$ ($11 \leqslant x \leqslant 45$) granular films 87
Pringle, O.A., see Long, G.J. 10
Pullar, R.C., S.G. Appleton, M.H. Stacey, M.D. Taylor and A.K. Bhattacharya, The manufacture and characterisation of aligned fibres of the ferroxplana ferrites Co_2Z, 0.67% CaO-doped Co_2Z, Co_2Y and Co_2W 313
Pullar, R.C., S.G. Appleton and A.K. Bhattacharya, The manufacture, characterisation and microwave properties of aligned M ferrite fibres 326

Raikher, Yu.L., see Gazeau, F. 175
Ritter, C., see Schobinger-Papamantellos, P. 21
Robinson, R.A., see Javorský, P. 373
Rodríguez-Fernández, J., see Soldevilla, J.G. 49

Sal, J.C.G., see Soldevilla, J.G. 49
Salamon, M.B., see O'Donovan, K.V. 161
Sankpal, A.M., S.S. Suryavanshi, S.V. Kakatkar, G.G. Tengshe, R.S. Patil, N.D. Chaudhari and S.R. Sawant, Magnetization studies on aluminium and chromium substituted Ni–Zn ferrites 349
Sarzyński, J., see Jartych, E. 299
Sawant, S.R., see Sankpal, A.M. 349
Schobinger-Papamantellos, P., K.H.J. Buschow and C. Ritter, Magnetic ordering and phase transitions of RFe_4Al_8 (R = La, Ce, Y, Lu) compounds by neutron diffraction 21
Semitelou, J.P. and J.K. Yakinthos, Commensurate and incommensurate magnetic structure of Tb_5Sn_3 107
Shinde, S.R., A. Bhagwat, S.I. Patil, S.B. Ogale, G.K. Mehta, S.K. Date and G. Marest, Influence of 85 MeV oxygen ion irradiation on magnetization behavior of micron-sized and nano-sized powders of strontium ferrite ($SrFe_{12}O_{19}$) 342
Shipil, E.V., see Pohorilyi, A.N. 87
Slanič, Z. and D.P. Belanger, The random-field specific heat critical behavior at high magnetic concentration: $Fe_{0.93}Zn_{0.07}F_2$ 65
Soldevilla, J.G., J.C.G. Sal, J. Rodríguez-Fernández, J.I. Espeso and M.A. Argüelles, Evolution of the magnetic behaviour on $PrNi_{1-x}Cu_x$: effect of the crystal electric field and the exchange interactions 49
Sologub, O., see Hiebl, K. 56
Spanjaard, D., see Guirado-López, R. 214
Stacey, M.H., see Pullar, R.C. 313
Stepanov, V.I., see Gazeau, F. 175
Stobiecki, T., see Paja, A. 104
Sun, K., see Lin, C. 129
Sun, Y.-X., see Lin, C. 129
Suryavanshi, S.S., see Sankpal, A.M. 349
Svedberg, E.B., see Granberg, P. 154
Swainson, I.P., see Lamarche, A.-M. 121
Szymczak, H., see Gnatchenko, S.L. 139
Szymczak, R., see Gnatchenko, S.L. 139

Talik, E., M. Neumann, J. Kusz, H. Böhm, T. Mydlarz, J. Heimann and A. Winiarski, Properties of Er_3Rh single crystals 33
Tang, S.L., see Tang, W. 115
Tang, W., Z.Q. Jin, J.H. Yin, J.R. Zhang, S.L. Tang, Y.W. Du, F.L. Wei and Z. Yang, Influence of Mo addition on the microstructure and magnetic properties of $Sm_2(Fe, Al, Mo)_{17}C_{1.5}$ alloys 115
Taylor, M.D., see Pullar, R.C. 313
Tengshe, G.G., see Sankpal, A.M. 349
Thang, C.V., N.P. Thuy, P.E. Brommer and J.J.M. Franse, Anomalous thermal expansion of monocrystalline YCo_4B 386
Thuy, N.P., see Thang, C.V. 386
Tran, V.H., R. Troć and G. André, Magnetic ordering in URhSi and URhGe 81
Troć, R., see Tran, V.H. 81
Tucker, J.W., see Derzhko, O. 188

Vaingankar, A.S., see Vasambekar, P.N. 333
Vasambekar, P.N., C.B. Kolekar and A.S. Vaingankar, Cation distribution and susceptibility study of Cd–Co and Cr^{3+} substituted Cd–Co ferrites 333
Vázquez, M., see Arcas, J. 283
Vincent, D., see Payet, B. 168
Vovk, A.Ya., see Pohorilyi, A.N. 87

Wachter, P., see Pittini, R. 306
Wang, X., see Kim, M. 277
Wäppling, R., see Granberg, P. 154
Wei, F.L., see Tang, W. 115
Weitzel, H., see Ehrenberg, H. 74
Wiesmann, M., see Ehrenberg, H. 74
Willey, R.J., see Hamdeh, H.H. 377
Winiarski, A., see Talik, E. 33
Woolley, J.C., see Lamarche, A.-M. 121

Yakinthos, J.K., see Semitelou, J.P. 107
Yang, C., see Gao, Y. 97
Yang, J.-L., see Lin, C. 129
Yang, Z., see Tang, W. 115
Yao, Y.D., see Klik, I. 233
Yin, J.H., see Tang, W. 115

Zaburannyi, O., see Derzhko, O. 188
Zhang, J.R., see Tang, W. 115
Zhong, L., see Kim, M. 277
Zhu, J., see Gao, Y. 97
Zuberek, R., see Gnatchenko, S.L. 139
Żurawicz, J.K., see Jartych, E. 299

ELSEVIER

Journal of Magnetism and Magnetic Materials 186 (1998) 406–407

journal of magnetism and magnetic materials

Subject index to volume 186

Addition effects 115
Aerogel synthesis 377
Amorphous alloys 104
Amorphous systems
– wires 135
Anisotropy constant 349
– induced 135
– interface 277
– magnetocrystalline 33, 277
Annealing effect 87
Antiferromagnetic coupling 154
Antiferromagnetism L1

Brown relaxation 168

Cation distribution 333
Cerium pnictides 306
Clusters 214
Coercivity 41, 248
Copper oxides 288
Cr alloys L1
Critical phenomena
– specific heat 65
Crystal electric field 49
Crystal field 373
Crystal structure 21
Crystallographic shape changes 161

Defects 342
Domain structure 333
Domain walls 248

Electrical resistivity 56, 357
Electron transport 357
Electronic structure 33, 214, 223
Electronic transport 104
Energy barrier distribution 199
Epitaxial films 161
Exchange biasing 265
Exchange coupling 97
Exchange interaction 349

Ferrimagnetism 381
Ferrites 333, 342, 349
Ferromagnetic materials 10
Ferromagnetic resonance 175, 313, 326
Ferromagnetism 381
Ferroxplana 313
Fibres 313, 326
Fluctuations 283

Galvanomagnetic effects L7
Ge-Fe-oxide 377
Giant magnetoresistance 154
Grain growth 313

Heat capacities 373
Heterogeneous materials 283
Hexagonal ferrites 313, 326
Hyperfine magnetic field 299

Impurity 223
Induced spin fluctuations 288
Interfacial roughness 265
Intermetallic compounds 81
Intermetallic solid solutions 10
Irradiation 342
Ising system 65
Isomer shift 299

Kerr effect 139

Magnetic anisotropy 49
Magnetic fluids 168
Magnetic moment 214, 223
Magnetic multilayers 154
Magnetic nanoparticles 175
Magnetic ordering 377
Magnetic phase boundaries 74
Magnetic properties 49, 56, 115
Magnetic reversal 248
Magnetic structure 21, 81, 107
Magnetic superlattices 161
Magnetic susceptibility 381
Magnetization 139, 299, 349
Magnetization soliton 239
Magneto-optic media 248
Magneto-optics 306
Magnetoresistance
– giant 87
Magnetoresistive head simulation 389
Magnetoresistivity 56
Magnetostriction 161, 283
Magnetostriction constants 135, 386
Many-particle systems 199
Mechanical alloying 299
Melt-spinning 41, 115
Metallic alloys 357
Metals L7
Metamagnetism 33
Micromagnetic simulation 389
Microstructure 115
Mössbauer spectroscopy 10, 377
Multilayers 139

Nanocomposite 97
Nanocrystalline material 97
Nanocrystalline ribbons 283
Nanocrystallites 299
Nanoparticles 342
Neutron diffraction 21, 129
Neutron powder diffraction 81
Neutron scattering 373
Noncollinear spin configuration 139
Nonresonant interaction 239
Numerical methods 199

Optical birefringence 65

Paramagnetism L1
Particle size distribution 168
Particulate media 233
Pulsed heat technique 65

Random-bond Ising chain 188
Rare earth binary compounds 107, 129
Rare earth compounds 21
Rare earth intermetallics 49

0304-8853/98/$19.00 © 1998 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(98)00191-7

Rare-earth alloys 115
Rare-earth compounds 41
Rare-earth intermetallic compounds 373
Rare-earth–transition metal compounds 33, 386
Regular alternating-bond Ising chain 188

Simulation 248
Single crystal 33
Single domain 342
Singlet–triplet magnet 288
Sol–gel 313, 326
Spin reorientation 139, 386
Spin valves 265
Spin-density wave L1
Spin-glass behaviour 121
Spin-valves 389
Spinels 381
Static properties 74
Structure 121, 129
– commensurate 107
– incommensurate 107
Substitution effects 41, 349
Superlattices 277
Surface 223
Surface anisotropy 175
Susceptibility 121, 188
– AC 233, 333
– initial 233
Synchrotron studies 161

Telluride 121
Thermal expansion 386
Thermal relaxation 233
Thin films
– granular 87

Weakly nonlinear solution 239

X-ray analysis 381
X-ray diffraction 121